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1600

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/804,472A

DATE: 11/07/2003

TIME: 14:22:03

Input Set : A:\1163 REV SEQLIST.TXT

Output Set: N:\CRF4\11062003\I804472A.raw

4 <110> APPLICANT: SHAO, Wei et al.  
 6 <120> TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,  
 7 NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,  
 8 AND USES THEREOF  
 10 <130> FILE REFERENCE: CL001163  
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 C--> 12 <141> CURRENT FILING DATE: 2001-03-13  
 12 <160> NUMBER OF SEQ ID NOS: 72  
 14 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 16 <210> SEQ ID NO: 1  
 17 <211> LENGTH: 3625  
 18 <212> TYPE: DNA  
 19 <213> ORGANISM: Homo sapiens  
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 24 tctttttctt tttcttcttc tatttaaaaaa ttctaatcat ggtatgcttct tccgaccctt 180  
 25 atttgcctta tgacggggga ggagacaata ttcccctgag ggaattacat aaaagaggaa 240  
 26 ctcattatac aatgacaataa ggaggcagca ttaacagttc tacacattta ctggatctt 300  
 27 tggatgaacc aattccagggt gttggatcat atgatgattt ccatactatt gattgggtgc 360  
 28 gagaaaaatg taaagacaga gaaaggcata gacggatcaa cagcaaaaag aaagaatcag 420  
 29 catggaaat gacaaaaatg ttgtatgatg cgtggtcagg atggctagta gtaacactaa 480  
 30 caggattggc atcaggggca ctggccggat taatagacat tgcgtccgat tggatgactg 540  
 31 acctaaagga gggcatttgc cttagtgcggt tggatcaca ccacgaacag tgcgttggg 600  
 32 gatctaattt aacaacattt gaagagaggg ataaatgtcc acagtggaaa acatggcag 660  
 33 aattaatcat aggtcaagca gagggtcctg gttcttatcat gatgactac ataatgtaca 720  
 34 tcttctggc cttgagttt gcctttctt cagttccctt ggtaaaggta tttgctccat 780  
 35 atgcctgtgg ctctggattt ccagagatta aaactatttt aagtggattt atcatcagag 840  
 36 gttacttggg aaaatggact ttaatgatta aaaccatcac attagtcctg gctgtggcat 900  
 37 caggtttgag ttttagaaaaa gaaggtcccc tggatcatgt tgcctgttgc tgcggaaata 960  
 38 tcttttccta cctcttcca aagtatagca caaacaaga taaaaaaaaagg gaggtgctat 1020  
 39 cagctgcctc agctgcagggt gtttctgttag cttttggtc accaattgga ggagttctt 1080  
 40 tttagcctggaa agaggttagc tattttttc ctctcaaaac tttatggaga tcatttttg 1140  
 41 ctgcttttagt ggctgcattt gttttgagggt ccatcaatcc atttggtaac agccgtctgg 1200  
 42 tcctttttta tggatgtatcat cttttttttt tggatgtttt ctttttattttc 1260  
 43 ttcttaggggt atttggagggt ctttggggag cttttttcat tagggcaat attgcctgg 1320  
 44 gtcgtgcacg caagtccacg aaatttggaa agtatcccgt tctggaaatc attattgttg 1380  
 45 cagccattac tgctgtgata gccttcccta atccatacac taggctaaac accagtgaac 1440  
 46 tgatcaaaga gctttttaca gactgtggtc ccctggaaatc ctcttcttctt tggactaca 1500  
 47 gaaatgacat gaatgccagt aaaattgtcg atgacattcc tgatcgtcca gcaggcattt 1560  
 48 gagtatatttcc agctatatgg cagttatgccc tggcactcat attttttttt ataatgacag 1620  
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ENTERED

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Input Set : A:\1163 REV SEQLIST.TXT

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102 Asp Ala Trp Ser Gly Trp Leu Val Val Thr Leu Thr Gly Leu Ala Ser  
 103 100 105 110  
 104 Gly Ala Leu Ala Gly Leu Ile Asp Ile Ala Ala Asp Trp Met Thr Asp  
 105 115 120 125  
 106 Leu Lys Glu Gly Ile Cys Leu Ser Ala Leu Trp Tyr Asn His Glu Gln  
 107 130 135 140  
 108 Cys Cys Trp Gly Ser Asn Glu Thr Thr Phe Glu Glu Arg Asp Lys Cys  
 109 145 150 155 160  
 110 Pro Gln Trp Lys Thr Trp Ala Glu Leu Ile Ile Gly Gln Ala Glu Gly  
 111 165 170 175  
 112 Pro Gly Ser Tyr Ile Met Asn Tyr Ile Met Tyr Ile Phe Trp Ala Leu  
 113 180 185 190  
 114 Ser Phe Ala Phe Leu Ala Val Ser Leu Val Lys Val Phe Ala Pro Tyr  
 115 195 200 205  
 116 Ala Cys Gly Ser Gly Ile Pro Glu Ile Lys Thr Ile Leu Ser Gly Phe  
 117 210 215 220  
 118 Ile Ile Arg Gly Tyr Leu Gly Lys Trp Thr Leu Met Ile Lys Thr Ile  
 119 225 230 235 240  
 120 Thr Leu Val Leu Ala Val Ala Ser Gly Leu Ser Leu Gly Lys Glu Gly  
 121 245 250 255  
 122 Pro Leu Val His Val Ala Cys Cys Cys Gly Asn Ile Phe Ser Tyr Leu  
 123 260 265 270  
 124 Phe Pro Lys Tyr Ser Thr Asn Glu Ala Lys Lys Arg Glu Val Leu Ser  
 125 275 280 285  
 126 Ala Ala Ser Ala Ala Gly Val Ser Val Ala Phe Gly Ala Pro Ile Gly  
 127 290 295 300  
 128 Gly Val Leu Phe Ser Leu Glu Val Ser Tyr Tyr Phe Pro Leu Lys  
 129 305 310 315 320  
 130 Thr Leu Trp Arg Ser Phe Phe Ala Ala Leu Val Ala Ala Phe Val Leu  
 131 325 330 335  
 132 Arg Ser Ile Asn Pro Phe Gly Asn Ser Arg Leu Val Leu Phe Tyr Val  
 133 340 345 350  
 134 Glu Tyr His Thr Pro Trp Tyr Leu Phe Glu Leu Phe Pro Phe Ile Leu  
 135 355 360 365  
 136 Leu Gly Val Phe Gly Gly Leu Trp Gly Ala Phe Phe Ile Arg Ala Asn  
 137 370 375 380  
 138 Ile Ala Trp Cys Arg Arg Lys Ser Thr Lys Phe Gly Lys Tyr Pro  
 139 385 390 395 400  
 140 Val Leu Glu Val Ile Ile Val Ala Ala Ile Thr Ala Val Ile Ala Phe  
 141 405 410 415  
 142 Pro Asn Pro Tyr Thr Arg Leu Asn Thr Ser Glu Leu Ile Lys Glu Leu  
 143 420 425 430  
 144 Phe Thr Asp Cys Gly Pro Leu Glu Ser Ser Ser Leu Cys Asp Tyr Arg  
 145 435 440 445  
 146 Asn Asp Met Asn Ala Ser Lys Ile Val Asp Asp Ile Pro Asp Arg Pro  
 147 450 455 460  
 148 Ala Gly Ile Gly Val Tyr Ser Ala Ile Trp Gln Leu Cys Leu Ala Leu  
 149 465 470 475 480  
 150 Ile Phe Lys Ile Ile Met Thr Val Phe Thr Phe Gly Ile Lys Val Pro

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151 485 490 495  
152 Ser Gly Leu Phe Ile Pro Ser Met Ala Ile Gly Ala Ile Ala Gly Arg  
153 500 505 510  
154 Ile Val Gly Ile Ala Val Glu Gln Leu Ala Tyr Tyr His His Asp Trp  
155 515 520 525  
156 Phe Ile Phe Lys Glu Trp Cys Glu Val Gly Ala Asp Cys Ile Thr Pro  
157 530 535 540  
158 Gly Leu Tyr Ala Met Val Gly Ala Ala Cys Leu Gly Gly Val Thr  
159 545 550 555 560  
160 Arg Met Thr Val Ser Leu Val Val Ile Val Phe Glu Leu Thr Gly Gly  
161 565 570 575  
162 Leu Glu Tyr Ile Val Pro Leu Met Ala Ala Val Met Thr Ser Lys Trp  
163 580 585 590  
164 Val Gly Asp Ala Phe Gly Arg Glu Gly Ile Tyr Glu Ala His Ile Arg  
165 595 600 605  
166 Leu Asn Gly Tyr Pro Phe Leu Asp Ala Lys Glu Glu Phe Thr His Thr  
167 610 615 620  
168 Thr Leu Ala Ala Asp Val Met Arg Pro Arg Arg Asn Asp Pro Pro Leu  
169 625 630 635 640  
170 Ala Val Leu Thr Gln Asp Asn Met Thr Val Asp Asp Ile Glu Asn Met  
171 645 650 655  
172 Ile Asn Glu Thr Ser Tyr Asn Gly Phe Pro Val Ile Met Ser Lys Glu  
173 660 665 670  
174 Ser Gln Arg Leu Val Gly Phe Ala Leu Arg Arg Asp Leu Thr Ile Ala  
175 675 680 685  
176 Ile Glu Ser Ala Arg Lys Lys Gln Glu Gly Ile Val Gly Ser Ser Arg  
177 690 695 700  
178 Val Cys Phe Ala Gln His Thr Pro Ser Leu Pro Ala Glu Ser Pro Arg  
179 705 710 715 720  
180 Pro Leu Lys Leu Arg Ser Ile Leu Asp Met Ser Pro Phe Thr Val Thr  
181 725 730 735  
182 Asp His Thr Pro Met Glu Ile Val Val Asp Ile Phe Arg Lys Leu Gly  
183 740 745 750  
184 Leu Arg Gln Cys Leu Val Thr His Asn Gly Arg Leu Leu Gly Ile Ile  
185 755 760 765  
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200 <223> OTHER INFORMATION: n = A,T,C or G  
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RAW SEQUENCE LISTING  
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204 taaaaataat tcaaatatgg ctacaaaact tttacaatat gaagcattgt cagttttat 120  
205 tttaccggga ggatttcccc catcagttag tgctgactgt cattttcatt ctttatgatc 180  
206 aagttgtaga tcagggaaaa caagttaga gagtgccctac aaataccggg aaaacttgg 240  
207 gatagattt catttttat gtaaagacat ataagaacat gaatggata aaaaacaaaat 300  
208 cctttataaa tgccatcaa ttatatttt agaaaaatta tatggtgta aaacatataa 360  
209 aagaaccaca cactccaaa ttacattga gctaatttag tacagttgc ctttgtcaaa 420  
210 gcttcctt gttaaaaaaa ctattggctc agtgtgcagg aaggagcata ggagaaaaaa 480  
211 ttgccaagaa tatttggaaa atacagaaaa taaagaaaa aatcacctac tattcttatca 540  
212 aaaattttaa tagctagaat caggataaga tagaatattc ctgtggcagt aattcttagt 600  
213 tatattcctt tcctggacc ctgtctccca aatttcaggt gagattttt aagaagctct 660  
214 gtttatctga gattttaaat ataaaaactt gatttaacct atacagttt taaaaagac 720  
215 cctaaataag taaaatttag tactccacaa attgaagaga atttctctc tctcttact 780  
216 gccctctgag ttttctctt cttctctca cctccaattt tcatgtaaac acttcagtt 840  
217 cgagtggacc ttagagattt tctcattcaa tacttttagga aaacaaattt tatagaacccc 900  
218 ttgagttctg tggaaattgtc tctaattgaa aacacctttt gttgttggg ttgttttagt 960  
219 acactgtgt aacaggcattt caggaggaga atctcccaat ctagaggaat cctctcagag 1020  
220 gtagctataa aatattgtaa tctgtatctt aataagcatt gtgcgggttt tggtttgtt 1080  
221 tttaatgaca gttttaaaca agaaagtgc ttatattctg aacttcataa aaatttctat 1140  
222 taaagagaca atttctgaat ttatataacaa ttcttagaac agttgagttc ctcaactttga 1200  
223 gacacatttt tgctaaaagt taaaacacaa aaacccttat gagataaaat aggaagctag 1260  
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228 ttatagagta tttttttttt attttaataa gacttagaac caagttctt gagaacaccc 1560  
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232 cccctttata ttatcttaa aaccaaaaaga aataatgttt ctattgtttt actgttagtta 1800  
233 ccactgtatgc taccgaagct gtattgttag tgttcaaaa ttctcaaccc agttttgtt 1860  
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235 gcctctaagc cttgcttagat tgtagccact agcaaccagg ctgcaataat ttccctttga 1980  
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RAW SEQUENCE LISTING ERROR SUMMARY DATE: 11/07/2003  
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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**VERIFICATION SUMMARY**

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L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:284 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:4860

M:341 Repeated in SeqNo=3